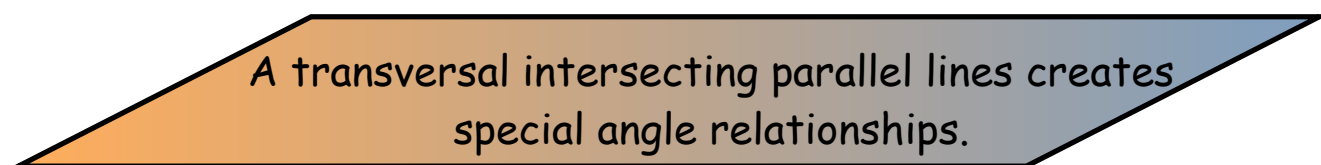


Important things to note:

parallel lines - lines that will never touch

transversal - line that intersects another line(s).

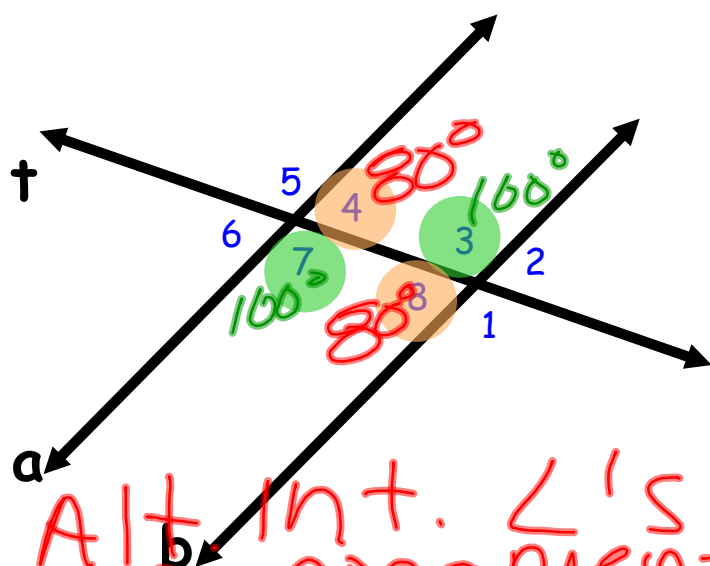


And those relationships are ...



Alternate Interior Angles

$\angle 7$ and $\angle 3$ are alternate interior angles.



Alt Int. \angle 's
are congruent

Put the circles over the other pair
of alternate interior angles.

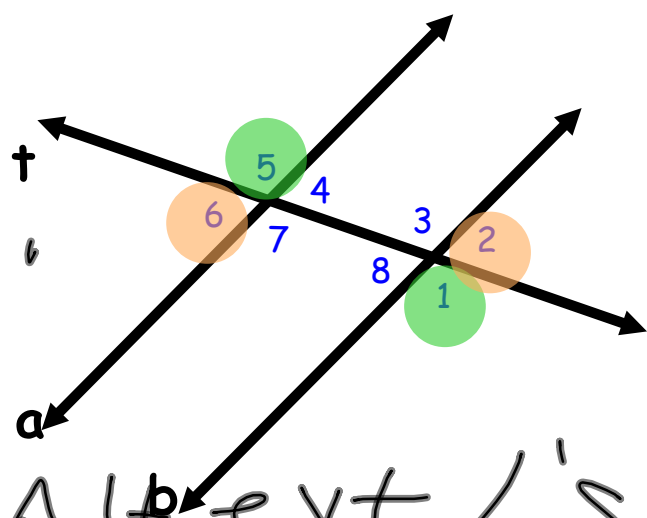
Math Dictionary

How would you
describe the
location of
alternate
interior angles?

- inside parallel lines
- opposite side of transversal

Alternate Exterior Angles

$\angle 5$ and $\angle 1$ are alternate exterior angles.



Alt-ext \angle 's
are CONGRUENT.

Put the circles over the other pair
of alternate exterior angles.

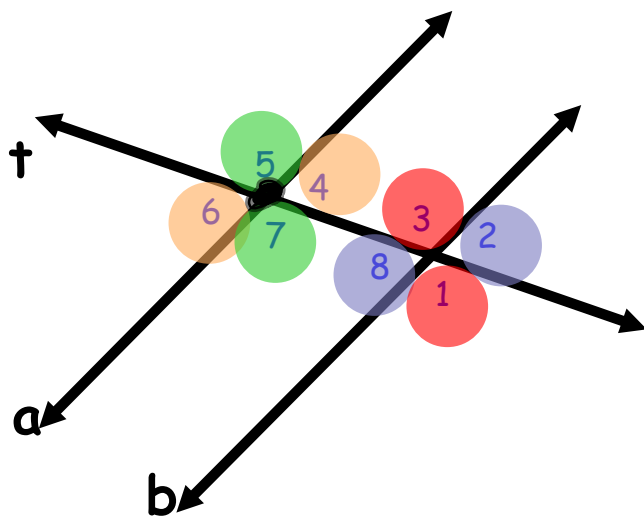
Math Dictionary

How would you
describe the
location of
alternate
exterior angles?

- outside the
parallel lines
- opposite side
of the
transversal

Vertical Angles

$\angle 5$ and $\angle 7$ are vertical angles.



Put the circles over another pair of vertical angles.

(HINT: There are 3 more pairs!)

Math Dictionary

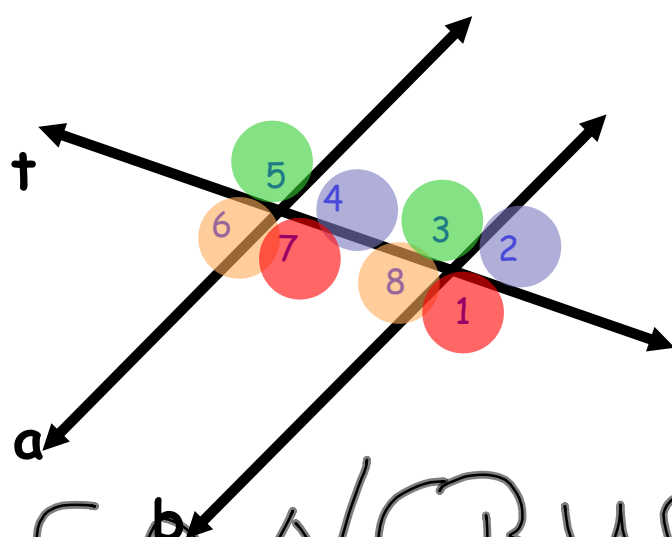
How would you describe the location of vertical angles?

— share vertex

— across transversal from each other on same parallel line

Corresponding Angles


$\angle 5$ and $\angle 3$ are corresponding angles.



Math Dictionary

How would you describe the location of corresponding angles?

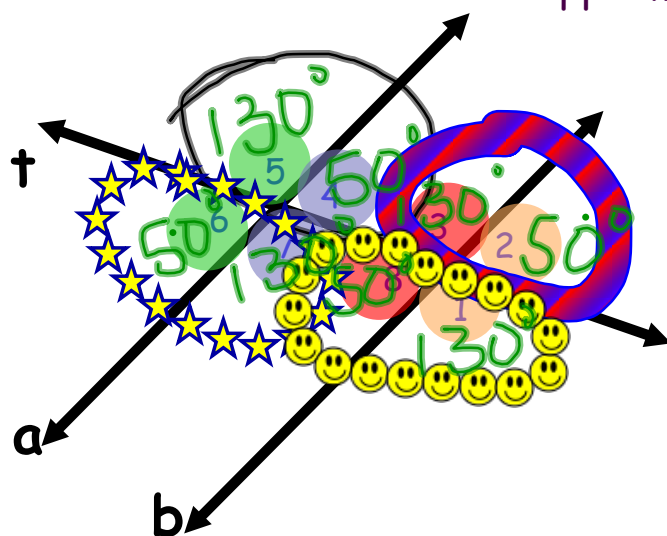
CONGRUENT!



Put the circles over another pair of corresponding angles.
(HINT: There are 3 more pairs!)

Supplementary Angles

$\angle 5$ and $\angle 6$ are supplementary angles.



Math Dictionary

How would you describe the location of supplementary angles?

Put the circles over another pair of supplementary angles.

(HINT: There are 7 - yes, 7 - more pairs!)

Name the relationship:

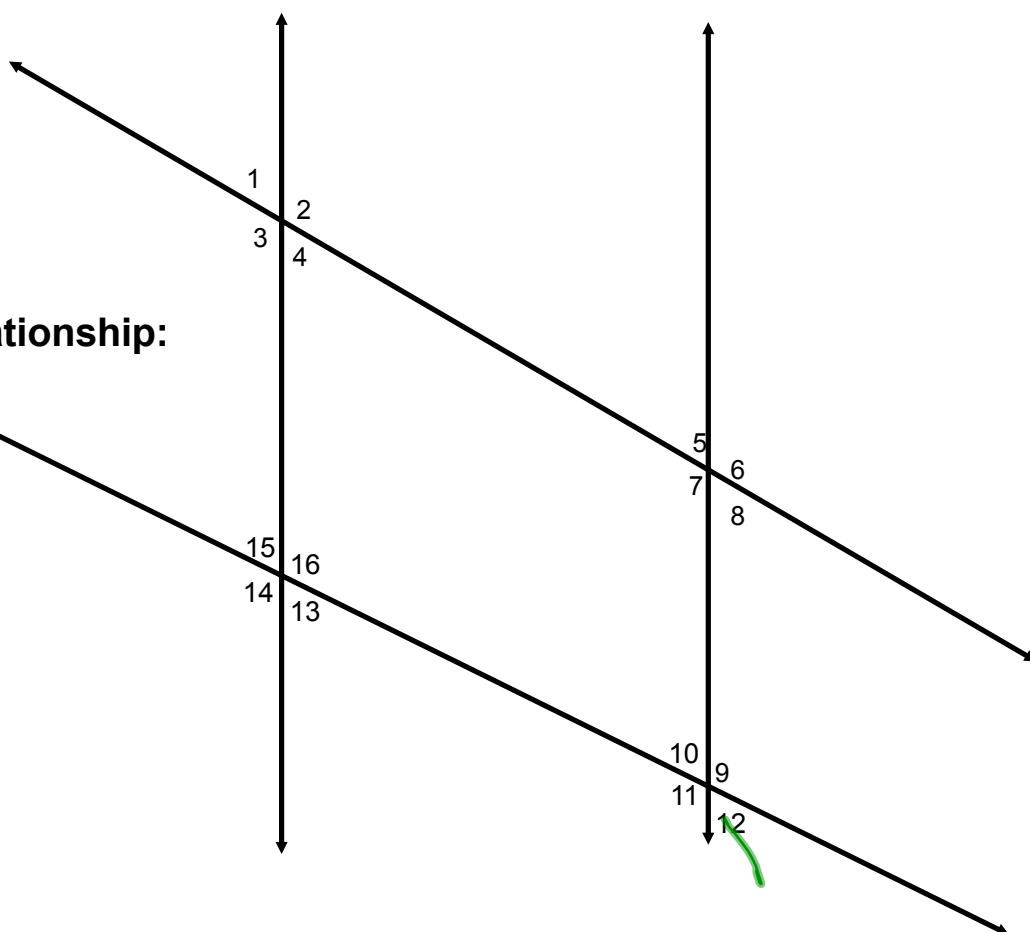
<1 & <4

<3 & <6

<10 & <9

<16 & <11

<14 & <11



Homework

